DETAILED ACTION

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Patrick Niedermeier on 03/26/2012.

The application has been amended as follows: Claims 1, 7-9, 15, 21, 23, 27-28, 34, 36,

37, 39, 40 and 42 are amended.

1. (Currently Amended) A method for capturing decrypted information directed to a

presentation device, the method comprising:

receiving, by the presentation device, decrypted information, wherein the device

includes:

a shader module containing a shader instruction sequence executable to apply a

visual effect to each of one or more pixels comprising a presentable

representation of the decrypted information and direct the one or more

pixels to a display, and

a capture module containing a capture instruction sequence executable to store at

least one of the decrypted information or the one or more pixels with the

applied visual effect in a first non-transitory computer readable storage

medium;

receiving, by the presentation device, an update to the capture instruction sequence,

wherein the update includes instructions executable to monitor changes to the one

or more pixels with the applied visual effect stored in the first non-transitory

computer readable storage medium and direct the one or more pixels with the

applied visual effect to a second non-transitory computer readable storage

medium when changes to the one or more pixels occur;

installing, by the presentation device, the update on the capture module, wherein

installation of the update modifies at least a portion of the capture instruction

sequence;

executing, by the presentation device, the modified capture instruction sequence to:

monitor changes to the one or more pixels with the applied visual effect stored in

the first non-transitory computer readable storage medium and direct the one or

more pixels with the applied visual effect to the second non-transitory computer

readable storage medium when changes to the one or more pixels occur.

7. (Currently Amended) The method of claim 1, further comprising:

retrieving, by the presentation device, the one or more pixels with the applied visual

effect from the first non-transitory computer readable storage medium;

encoding, by the presentation device, the one or more pixels with the applied visual effect

in a compressed format; and

storing, by the presentation device, the compressed format of the one or more pixels with

the applied visual effect in the first non-transitory computer readable storage

medium.

8. (Currently Amended) The method of claim 1, further comprising:

converting, by the presentation device, the decrypted information into a compressed

content stream; and

storing, by the presentation device, the compressed content stream in the first non-

transitory computer readable storage medium.

9. (Currently Amended) The method of claim 1, further comprising:

storing, by the presentation device, at least one of a display frame and an update frame

associated with the decrypted information in the first non-transitory computer

readable storage medium.

15. (Currently Amended) A presentation device for capturing decrypted information

comprising:

a shader module containing a first shader instruction sequence executable to apply a

visual effect to each of one or more pixels comprising a presentable representation

of decrypted information directed to the presentation device and direct the one or

more pixels with the applied visual effect to a display;

a capture module containing a capture instruction sequence executable to store at least

one of the decrypted information or the one or more pixels with the applied visual

effect in a first non-transitory computer readable storage medium;

an information port for receiving (i) the decrypted information directed to the

presentation device and (ii) an update to the capture instruction sequence, wherein

the update includes instructions executable to; monitor changes to the one or more

pixels with the applied visual effect stored in the first non-transitory computer

readable storage medium and direct the one or more pixels with the applied visual

effect to a second <u>non-transitory</u> computer readable storage medium when

changes to the one or more pixels occur;

an execution unit, containing a processor, for:

installing the updated capture instruction sequence on the capture module,

wherein installation of the update modifies at least a portion of the

capture instruction sequence, and

executing the modified capture instruction sequence to monitor changes to the one or

more pixels with the applied visual effect stored in the first <u>non-transitory</u>

computer readable storage medium and direct the one or more pixels with the

applied visual effect to the second <u>non-transitory</u> computer readable storage

medium when changes to the one or more pixels occur.

21. (Currently Amended) The presentation device of claim 15, further comprising a

compression unit capable of:

retrieving the one or more pixels with the applied visual effect from the first <u>non-</u>

<u>transitory</u> computer readable storage medium;

encoding the one or more pixels in a compressed content stream; and

storing the compressed content stream in the first <u>non-transitory</u> computer readable

storage medium.

23. (Currently Amended) The presentation device of claim 15, the executing further

comprising:

storing at least one of a display frame and an update frame associated with the decrypted

information in the first non-transitory computer readable storage medium.

27. (Currently Amended) The presentation device of claim 15, the executing further

comprising:

converting the decrypted information into a compressed content stream; and

storing the compressed content stream in the first non-transitory computer readable

storage medium.

28. (Currently Amended) The presentation device of claim 15, the executing further

comprising:

storing at least one of a display frame and an update frame associated with the decrypted

information in the first non-transitory computer readable storage medium.

34. (Currently Amended) A system for capturing decrypted information, the system

comprising:

a host processor;

a first non-transitory computer readable storage medium in communication with the host

processor;

a second non-transitory computer readable storage medium in communication with the

host processor:

a display adapter in communication with the host processor that includes:

a shader module containing a shader instruction sequence executable to apply a visual

effect to each of one or more pixels comprising a presentable representation of the

decrypted information and direct the one or more pixels to a display;

a capture module containing a capture instruction sequence executable to store at least

one of the decrypted information or the one or more pixels with the applied visual

effect in the first non-transitory computer readable storage medium;

a host port for receiving (i) decrypted information and (ii) an update to the capture

instruction sequence, wherein the update includes instructions executable to;

monitor changes to the one or more pixels with the applied visual effect stored in

the first non-transitory computer readable storage medium and direct the one or

more pixels with the applied visual effect to the second non-transitory computer

readable storage medium when changes to the one or more pixels occur;

an instruction memory for storing the shader instruction sequence, the capture instruction

sequence, and the update;

an execution unit for:

installing the update on the capture module, wherein installation of the update

modifies at least a portion of the capture instruction sequence,

executing the modified capture instruction sequence to monitor changes to the one

or more pixels with the applied visual effect stored in the first non-

transitory computer readable storage medium and direct the one or more

pixels with the applied visual effect to the second non-transitory computer

readable storage medium when changes to the one or more pixels occur;

and

an authorized player instruction sequence stored in the instruction memory that, when

executed by the host processor, minimally causes the host processor to:

retrieve the at least one of the decrypted information or the one or more pixels

with the applied visual effect from the first non-transitory computer

readable storage medium; and

direct the at least one of the decrypted information or the one or more pixels with

the applied visual effect to the display adapter.

36. (Currently Amended) The system of claim 34, the executing further comprising:

converting the decrypted information into a compressed content stream; and

storing the compressed content stream in the first non-transitory computer readable

storage medium.

37. (Currently Amended) The system of claim 34, the executing further comprising:

storing at least one of a display frame and an update frame associated with the decrypted

information in the first non-transitory computer readable storage medium.

39. (Currently Amended) A computer program product, tangibly embodied in a non-

transitory computer-readable storage medium, for capturing decrypted information, the computer

program product including instructions being operable to cause a data processing apparatus to:

receive decrypted information directed to a presentation device, wherein the device

includes:

a shader module containing a shader instruction sequence executable to apply a

visual effect to each of one or more pixels comprising a presentable

representation of the decrypted information and direct the one or more

pixels to a display, and

a capture module containing a capture instruction sequence executable to store at

least one of the decrypted information or the one or more pixels with the

applied visual effect in a first non-transitory computer readable storage

medium;

receive an update to the capture instruction sequence, wherein the update includes

instructions executable to; monitor changes to the one or more pixels with the

applied visual effect stored in the first non-transitory computer readable storage

medium and direct the one or more pixels with the applied visual effect to a

second non-transitory computer readable storage medium when changes to the

one or more pixels occur;

install the update on the capture module, wherein installation of the update modifies at

least a portion of the capture instruction sequence; and

execute the modified capture instruction sequence to monitor changes to the one or more

pixels with the applied visual effect stored in the first non-transitory computer

readable storage medium and direct the one or more pixels with the applied visual

effect to the second non-transitory computer readable storage medium when

changes to the one or more pixels occur.

40. (Currently Amended) A system for capturing decrypted information, the system

comprising:

means for receiving decrypted information directed to a presentation device, wherein the

device includes:

a shader module containing a shader instruction sequence executable to apply a

visual effect to one or more pixels comprising a presentable representation

of the decrypted information and direct the one or more pixels with the

applied visual effect to a display, and

a capture module containing a capture instruction sequence executable to store at

least one of the decrypted information or the one or more pixels with the

applied visual effect in a first non-transitory computer readable storage

medium;

means for receiving an update to the capture instruction sequence, wherein the update

includes instructions executable to monitor changes to the one or more pixels with

the applied visual effect stored in the first non-transitory computer readable

storage medium and direct the one or more pixels with the applied visual effect to

a second non-transitory computer readable storage medium when changes to the

one or more pixels occur;

means for installing the update on the capture module, wherein installation of the update

modifies at least a portion of the capture instruction sequence; and

means for executing the modified capture instruction sequence to monitor changes to the

one or more pixels with the applied visual effect stored in the first non-transitory

computer readable storage medium and direct the one or more pixels with the

applied visual effect to the second non-transitory computer readable storage

medium when changes to the one or more pixels occur.

42. (Currently Amended) A method for capturing decrypted information directed to a graphics processing unit of a presentation device, the method comprising:

receiving, by the graphics processing unit, decrypted information, wherein the graphics

processing unit includes:

a shader module containing a first instruction sequence executable to apply a

visual effect to one or more pixels comprising a presentable representation

of the decrypted information and direct the one or more pixels with the

applied visual effect to a display, and

a capture module containing a capture instruction sequence executable to store at

least one of the decrypted information or the one or more pixels with the

applied visual effect in a video RAM;

receiving, by the graphics processing unit, an update to the capture instruction sequence,

wherein the update includes instructions executable to monitor changes to the one

or more pixels with the applied visual effect stored in the video RAM and direct

the one or more pixels with the applied visual effect to an information port when

changes to the one or more pixels occur;

installing, by the graphics processing unit, the update on the capture module, wherein

installation of the update shader instruction sequence modifies at least a portion of

the capture instruction sequence;

executing, by the graphics processing unit, the shader instruction sequence to apply a

visual effect to the one or more pixels;

directing, by the graphics processing unit, the one or pixels with the applied visual effect

to the video RAM; and

executing, by the graphics processing unit, the modified capture instruction sequence to

monitor changes to the one or more pixels with the applied visual effect stored in

the video RAM and direct the one or more pixels with the applied visual effect to

the information port connected to a system bus for storage in a <u>non-transitory</u>

computer readable storage medium when changes to the one or more pixels occur<u>.</u>

Allowable Subject Matter

2.   Claims 1-5, 7-9, 15-19, 21, 23, 27-28, 34-37, 39-40 and 42-43 are allowed.

3.   The following is an examiner's statement of reasons for allowance:

The primary reason for allowance is the inclusion in all the claims of the limitation which

recites an update to the capture instruction sequence wherein the update includes instructions

executable to monitor changes to one or more pixels stored in a first non-transitory medium and

to direct the pixels to a second non-transitory medium when changes to the pixels occur.

Applicant's argument to this effect in part II of the remarks/arguments section is persuasive.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to IZUNNA OKEKE whose telephone number is (571)270-3854.

The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gilberto Barron can be reached on (571) 270-3799. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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